

THE FACTS

On Lithium Batteries

Lithium Batteries are rechargeable batteries that are used for portable electronics and electronic vehicles. Examples include smartphones, laptops, robots, research and lab equipment, and cordless power tools.

HAZARDS

- Overheating
- Fire
- Explosion
- Thermal runaway

SAFETY TIPS

1. Always follow the manufacturer's instructions.
2. Only use the battery that is designed for the device.
3. Only use the charging cord that came with the device.
4. No charging overnight or unattended.
5. Have proper fire extinguisher available in areas where large sources or quantities are used.

TRANSPORTATION

Due to safety and regulatory requirements for transporting lithium batteries contact the Office of Research Safety for guidance and assistance.

656-0341

DISPOSAL

For disposal of Lithium Batteries contact
Clemson University
Hazardous Materials
Program

juneb@clemson.edu
(864) 656-1770



**OCCUPATIONAL AND
ENVIRONMENTAL SAFETY**

STORAGE

- Keep in a dry, room temperature (68-70 degrees F) space.
- Do not store in direct sunlight or heat.
- Do not charge/store batteries in freezing temperatures (below 32 degrees F).
- Store and transport in non-metallic, enclosed container.
- For **extended** battery storage, discharge the battery to about 40 percent and keep it in a cool space.
- Store batteries away from anything that can catch fire (e.g., pillows, couches) or any other combustible material.

STOP USE IMMEDIATELY

IF THERE IS:

- A strange odor.
- A change in color.
- Excessive heat.
- A change in shape.
- Odd noises (e.g., hissing).
- Leaking.

If any of these problems arise, place the battery in secondary containment and put it outside. Call the Office of Research Safety immediately.

656-0341

The Office of Occupational and Environmental Safety strives to promote a culture of safety, integrity, and quality within the University research community. Along with the Office of Research Compliance, we work to facilitate University research, teaching and public service programs by providing oversight and coordination of research compliance and safety areas.